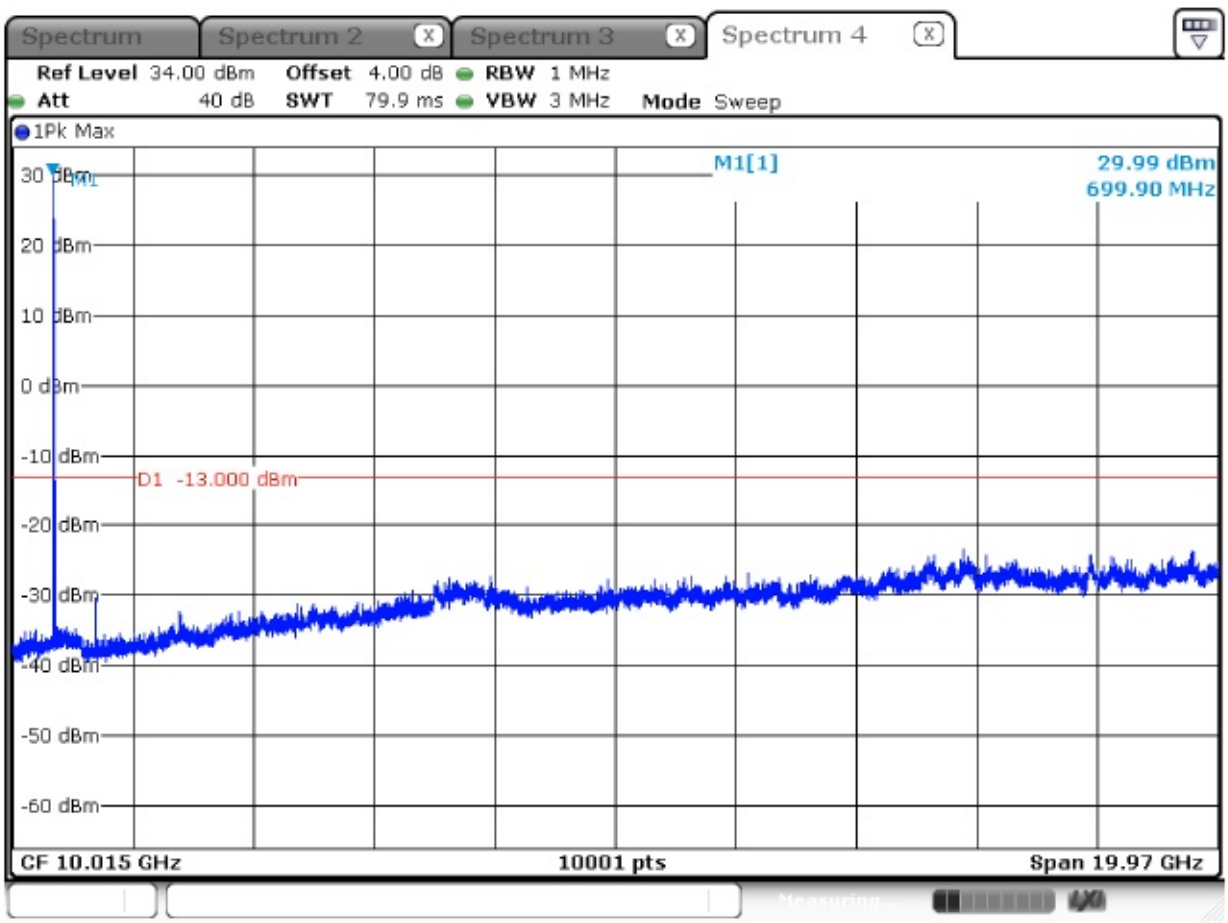
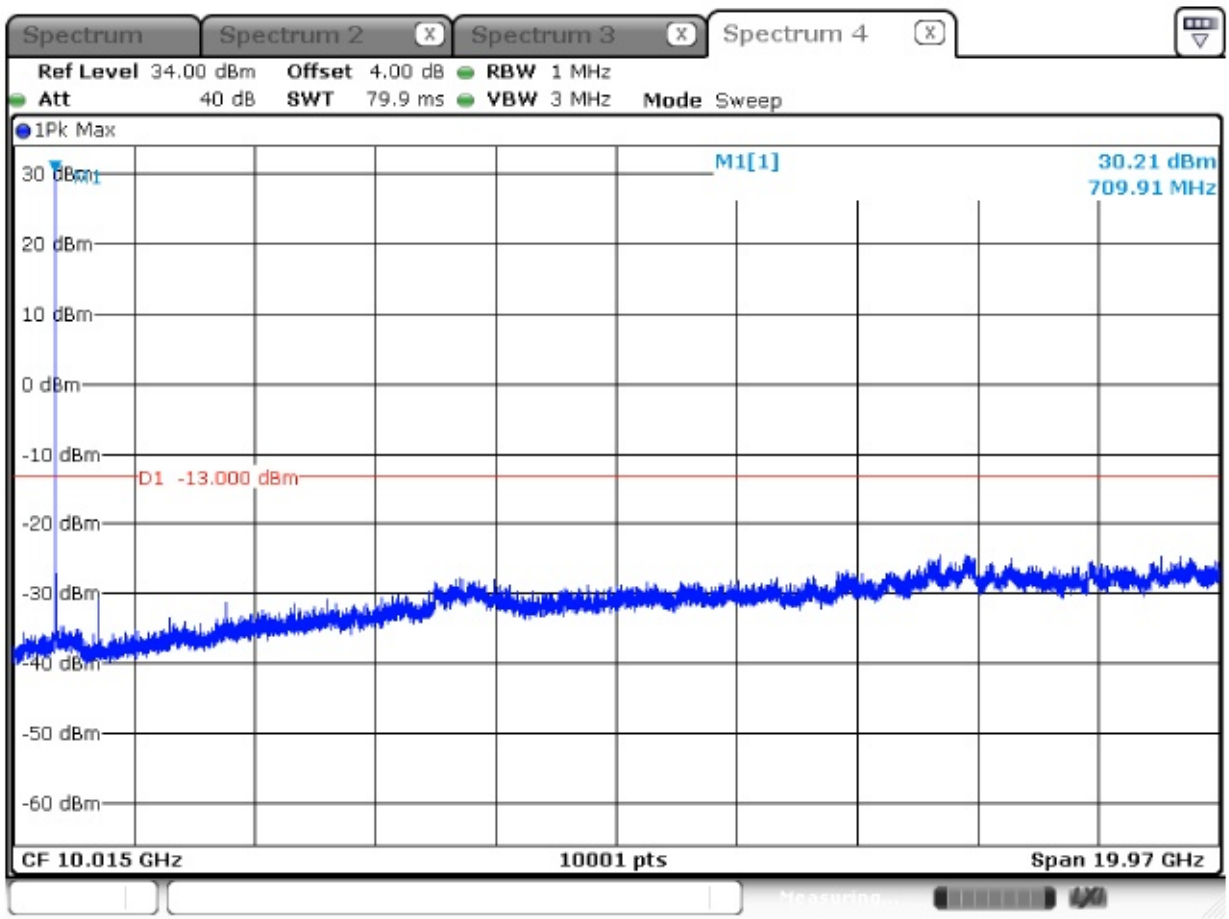
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link		
Date of Test	2017/09/08	Test Site	SR10-H

699.7 MHz



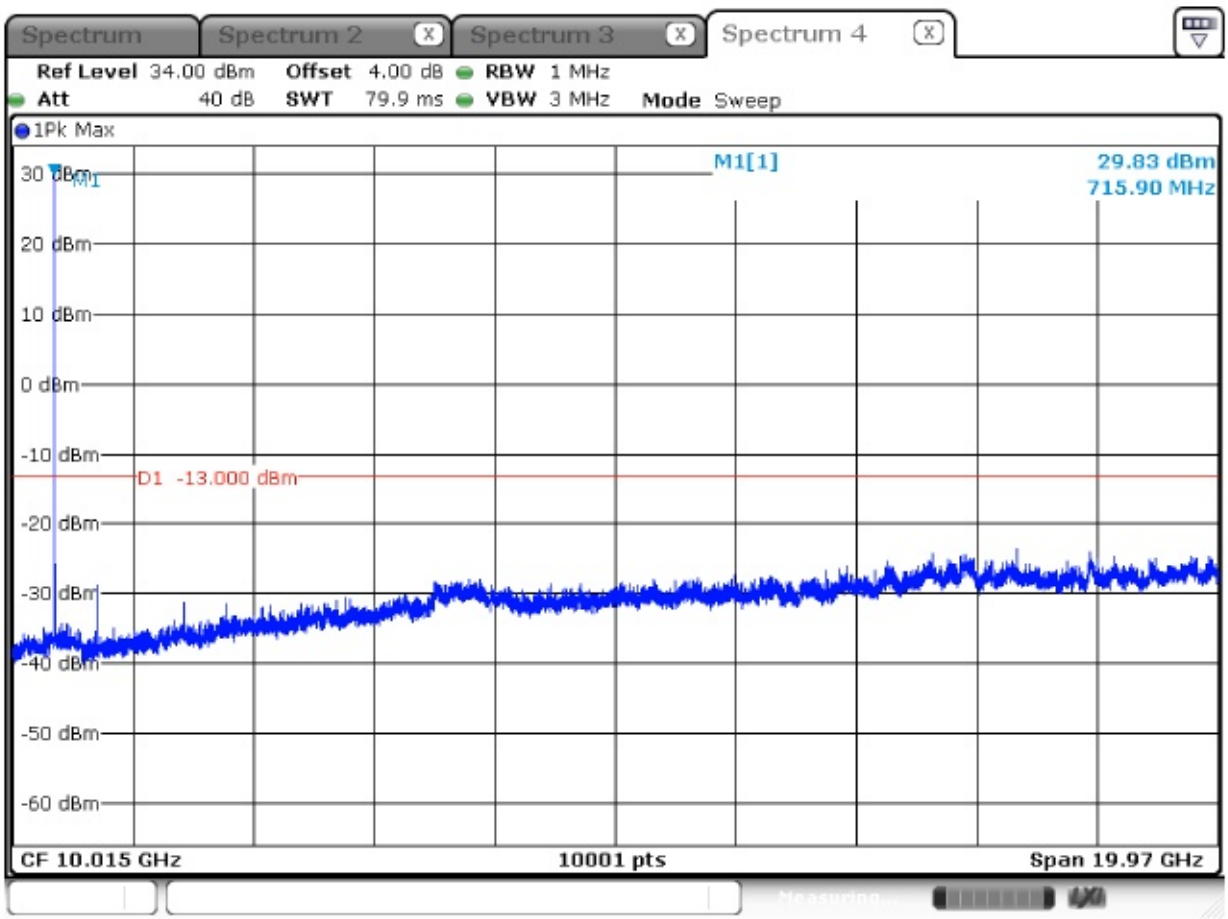
Date: 8.SEP.2017 16:30:36

705.7 MHz



Date: 8.SEP.2017 16:56:39

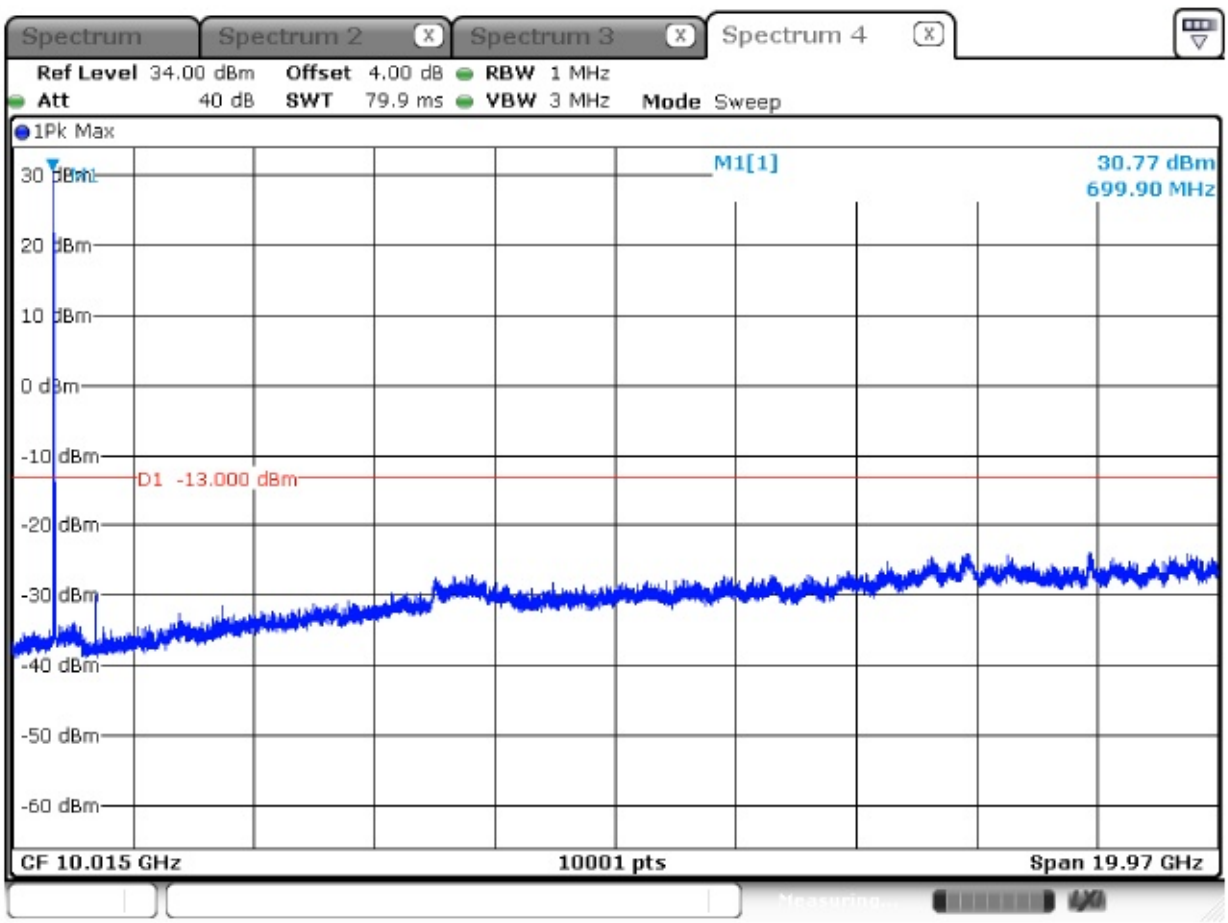
715.3 MHz



Date: 8.SEP.2017 16:53:27

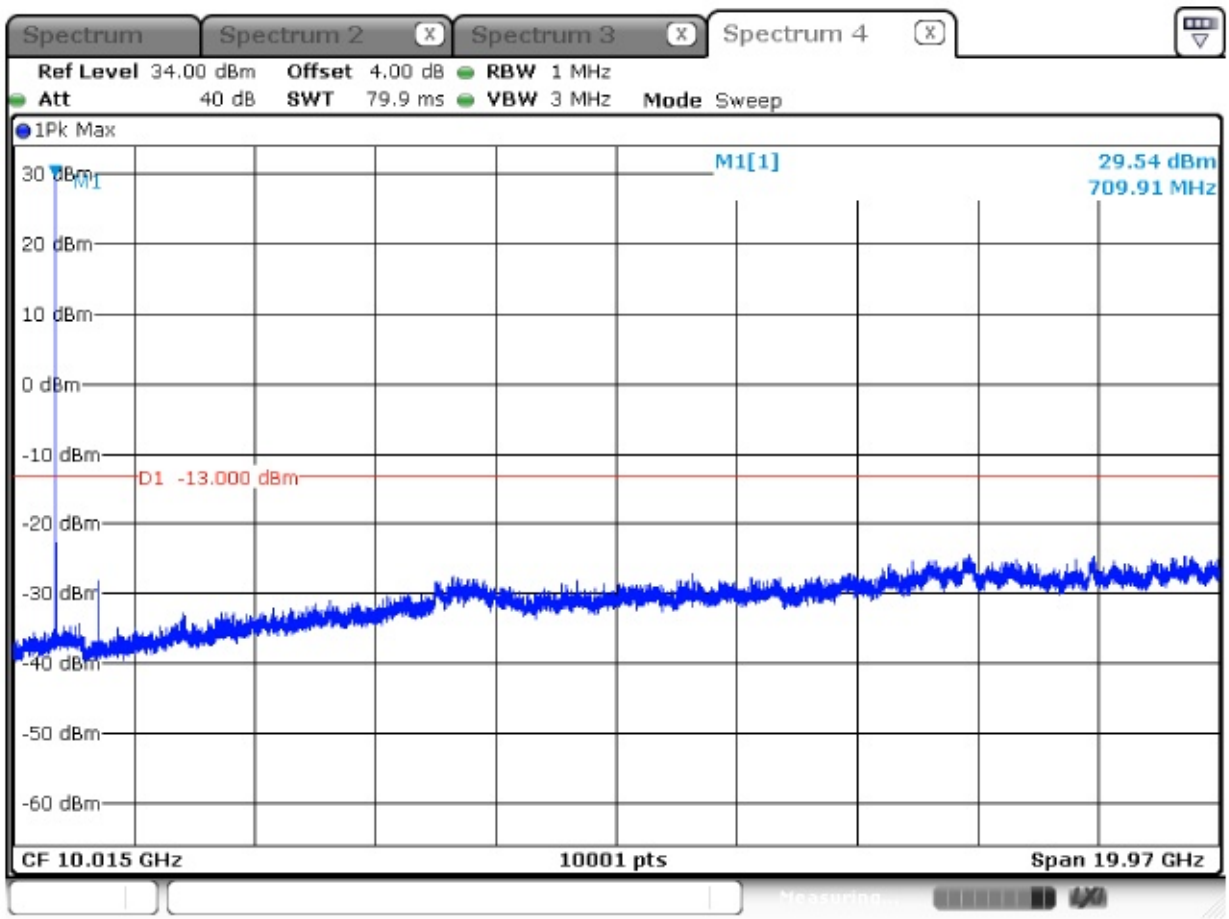
Product	Module		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

699.7 MHz



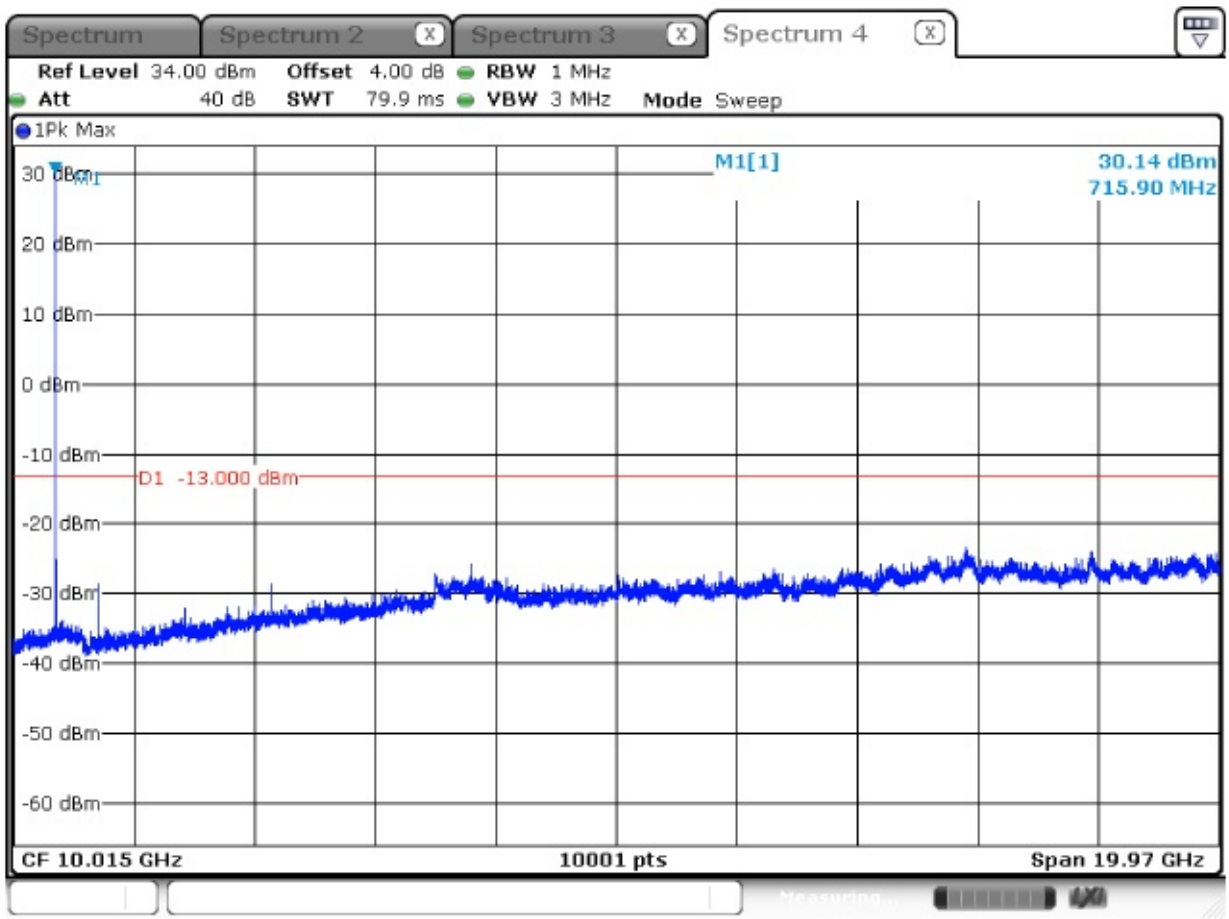
Date: 8.SEP.2017 16:31:55

705.7 MHz



Date: 8.SEP.2017 16:56:01

715.3 MHz



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Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: LTE_CAT-M1_Band 2_QPSK_Link		
Date of Test	2017/09/06	Test Site	CB4-H

1850.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3701.12	-56.260	H	-57.393	4.284	11.938	-49.739	-13	-36.739
5552.35	-54.110	H	-49.499	5.201	12.900	-41.800	-13	-28.800
3702.15	-53.410	V	-54.431	4.285	11.936	-46.780	-13	-33.780
5552.28	-51.450	V	-46.514	5.201	12.900	-38.815	-13	-25.815

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1878.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3756.06	-55.120	H	-55.938	4.331	11.839	-48.430	-13	-35.430
5634.09	-53.940	H	-49.064	5.233	12.900	-41.397	-13	-28.397
3756.06	-52.480	V	-53.099	4.331	11.839	-45.591	-13	-32.591
5634.09	-64.700	V	-59.654	5.233	12.900	-51.987	-13	-38.987

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1909.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
3811.26	-56.770	H	-57.472	4.379	11.740	-50.111	-13	-37.111
5716.89	-60.760	H	-55.616	5.265	12.900	-47.981	-13	-34.981
3811.26	-54.300	V	-54.807	4.379	11.740	-47.446	-13	-34.446
5716.89	-63.370	V	-58.213	5.265	12.900	-50.578	-13	-37.578

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE_CAT-M1_Band 2_16-QAM_Link		
Date of Test	2017/09/06	Test Site	CB4-H

1850.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3701.20	-55.720	H	-56.853	4.284	11.938	-49.199	-13	-36.199
5551.80	-56.140	H	-51.531	5.201	12.900	-43.832	-13	-30.832
3701.20	-52.810	V	-53.839	4.284	11.938	-46.185	-13	-33.185
5551.80	-49.320	V	-44.384	5.201	12.900	-36.685	-13	-23.685

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1878.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3756.26	-53.920	H	-54.738	4.331	11.839	-47.230	-13	-34.230
5634.39	-52.300	H	-47.423	5.233	12.900	-39.756	-13	-26.756
3756.26	-51.850	V	-52.469	4.331	11.839	-44.961	-13	-31.961
5634.39	-64.750	V	-59.704	5.233	12.900	-52.037	-13	-39.037

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1909.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3811.14	-54.390	H	-55.195	4.379	11.740	-47.834	-13	-34.834
5716.71	-57.360	H	-52.216	5.265	12.900	-44.581	-13	-31.581
3811.14	-52.170	V	-52.677	4.379	11.740	-45.316	-13	-32.316
5716.71	-58.370	V	-53.214	5.265	12.900	-45.579	-13	-32.579

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE_CAT-M1_Band 4_QPSK_Link		
Date of Test	2017/09/06	Test Site	CB4-H

1710.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3421.27	-49.400	H	-51.776	4.064	12.095	-43.745	-13	-30.745
5131.90	-67.770	H	-63.862	5.075	12.237	-56.700	-13	-43.700
3421.27	-48.490	V	-51.155	4.064	12.095	-43.124	-13	-30.124
5131.90	-63.610	V	-59.398	5.075	12.237	-52.236	-13	-39.236

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1730.8 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3461.27	-45.520	H	-47.900	4.088	12.199	-39.789	-13	-26.789
5191.91	-56.940	H	-52.987	5.092	12.345	-45.734	-13	-32.734
3461.27	-43.980	V	-46.652	4.088	12.199	-38.541	-13	-25.541
5191.91	-59.250	V	-55.081	5.092	12.345	-47.828	-13	-34.828

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1754.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3501.19	-55.270	H	-57.645	4.112	12.298	-49.459	-13	-36.459
5251.79	-65.470	H	-61.470	5.110	12.453	-54.127	-13	-41.127
3501.19	-54.920	V	-57.586	4.112	12.298	-49.400	-13	-36.400
5251.79	-65.790	V	-61.656	5.110	12.453	-54.313	-13	-41.313

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE_CAT-M1_Band 4_16-QAM_Link		
Date of Test	2017/09/06	Test Site	CB4-H

1710.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3421.27	-49.360	H	-51.736	4.064	12.095	-43.705	-13	-30.705
5131.90	-63.850	H	-59.942	5.075	12.237	-52.780	-13	-39.780
3421.27	-48.740	V	-51.405	4.064	12.095	-43.374	-13	-30.374
5131.90	-62.350	V	-58.138	5.075	12.237	-50.976	-13	-37.976

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1730.8 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3461.27	-46.670	H	-49.050	4.088	12.199	-40.939	-13	-27.939
5191.91	-65.210	H	-61.257	5.092	12.345	-54.004	-13	-41.004
3461.27	-44.790	V	-47.462	4.088	12.199	-39.351	-13	-26.351
5191.91	-62.410	V	-58.241	5.092	12.345	-50.988	-13	-37.988

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

1754.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
3501.19	-55.010	H	-57.385	4.112	12.298	-49.199	-13	-36.199
5251.79	-65.240	H	-61.240	5.110	12.453	-53.897	-13	-40.897
3501.19	-54.610	V	-57.276	4.112	12.298	-49.090	-13	-36.090
5251.79	-65.900	V	-61.766	5.110	12.453	-54.423	-13	-41.423

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link		
Date of Test	2017/09/06	Test Site	CB4-H

699.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
1399.39	-40.980	H	-45.050	2.572	7.817	-39.805	-13	-26.805
2099.08	-57.570	H	-62.102	3.179	9.959	-55.322	-13	-42.322
1399.39	-32.650	V	-38.090	2.572	7.817	-32.845	-13	-19.845
2099.08	-45.970	V	-51.300	3.179	9.959	-44.520	-13	-31.520

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

705.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
1411.5	-39.900	H	-44.030	2.582	7.875	-38.737	-13	-25.737
2117.25	-62.450	H	-66.603	3.191	9.988	-59.806	-13	-46.806
1411.5	-30.790	V	-36.315	2.582	7.875	-31.022	-13	-18.022
2117.25	-51.160	V	-56.168	3.191	9.988	-49.371	-13	-36.371

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

715.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
1423.05	-37.950	H	-42.137	2.592	7.931	-36.798	-13	-23.798
2134.58	-58.860	H	-62.651	3.203	10.015	-55.839	-13	-42.839
1423.05	-30.070	V	-35.678	2.592	7.931	-30.339	-13	-17.339
2134.58	-50.980	V	-55.681	3.203	10.015	-48.869	-13	-35.869

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/06	Test Site	CB4-H

699.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
1399.39	-38.450	H	-42.520	2.572	7.817	-37.275	-13	-24.275
2099.08	-56.680	H	-61.212	3.179	9.959	-54.432	-13	-41.432
1399.39	-30.100	V	-35.540	2.572	7.817	-30.295	-13	-17.295
2099.08	-48.770	V	-54.100	3.179	9.959	-47.320	-13	-34.320

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

705.7 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	Test Result (dBm)	Limit (dBm)	Margin (dB)
1411.5	-38.580	H	-42.710	2.582	7.875	-37.417	-13	-24.417
2117.25	-61.160	H	-65.313	3.191	9.988	-58.516	-13	-45.516
1411.5	-29.950	V	-35.475	2.582	7.875	-30.182	-13	-17.182
2117.25	-51.120	V	-56.128	3.191	9.988	-49.331	-13	-36.331

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

715.3 MHz

Frequency (MHz)	SA Reading (dBm)	Ant. Pol. (H/V)	SG Level (dBm)	Cable Loss (dB)	Ant. Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
1423.05	-38.110	H	-42.297	2.592	7.931	-36.958	-13	-23.958
2134.58	-61.340	H	-65.131	3.203	10.015	-58.319	-13	-45.319
1423.05	-30.470	V	-36.078	2.592	7.931	-30.739	-13	-17.739
2134.58	-50.800	V	-55.501	3.203	10.015	-48.689	-13	-35.689

Test Result (EIRP) = SG Level - Cable Loss + Antenna Gain

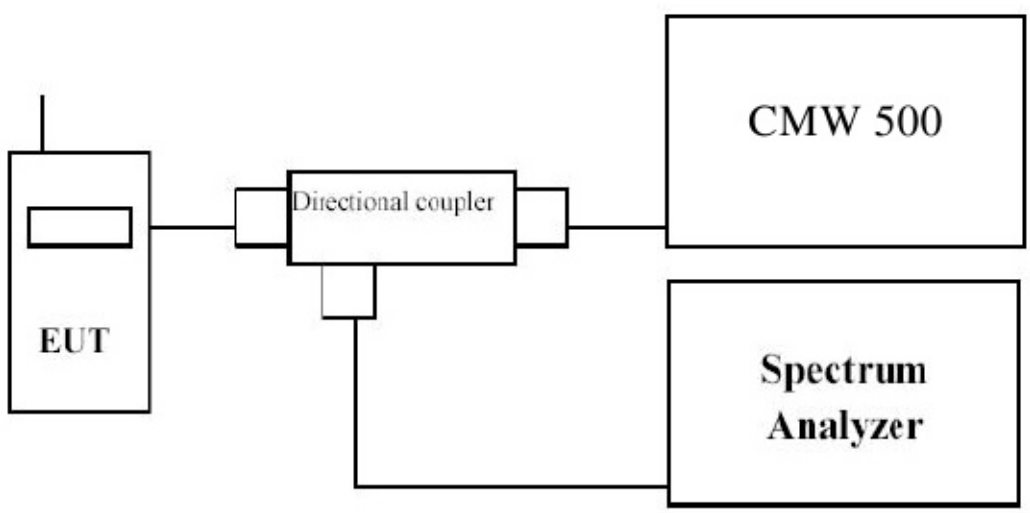
7. Spurious Emissions at Antenna Terminals

7.1. Test Equipment

Spurious Emissions at Antenna Terminals / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Wideband Radio Communication Tester	R&S	CMW500	150246	2017/04/19	2018/04/18
Directional Coupler	Agilent	778D	20402	2016/10/07	2017/10/06

7.2. Test Setup



7.3. Test Procedure

a) Place the EUT on a bench and set it in transmitting mode.
b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
c) EUT Communicate with CMW500, then select a channel for testing.
d) Add a correction factor to the display of spectrum, and then test.
e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

7.4. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 6.1
ANSI C63.26-2015 Sub-clause 5.7

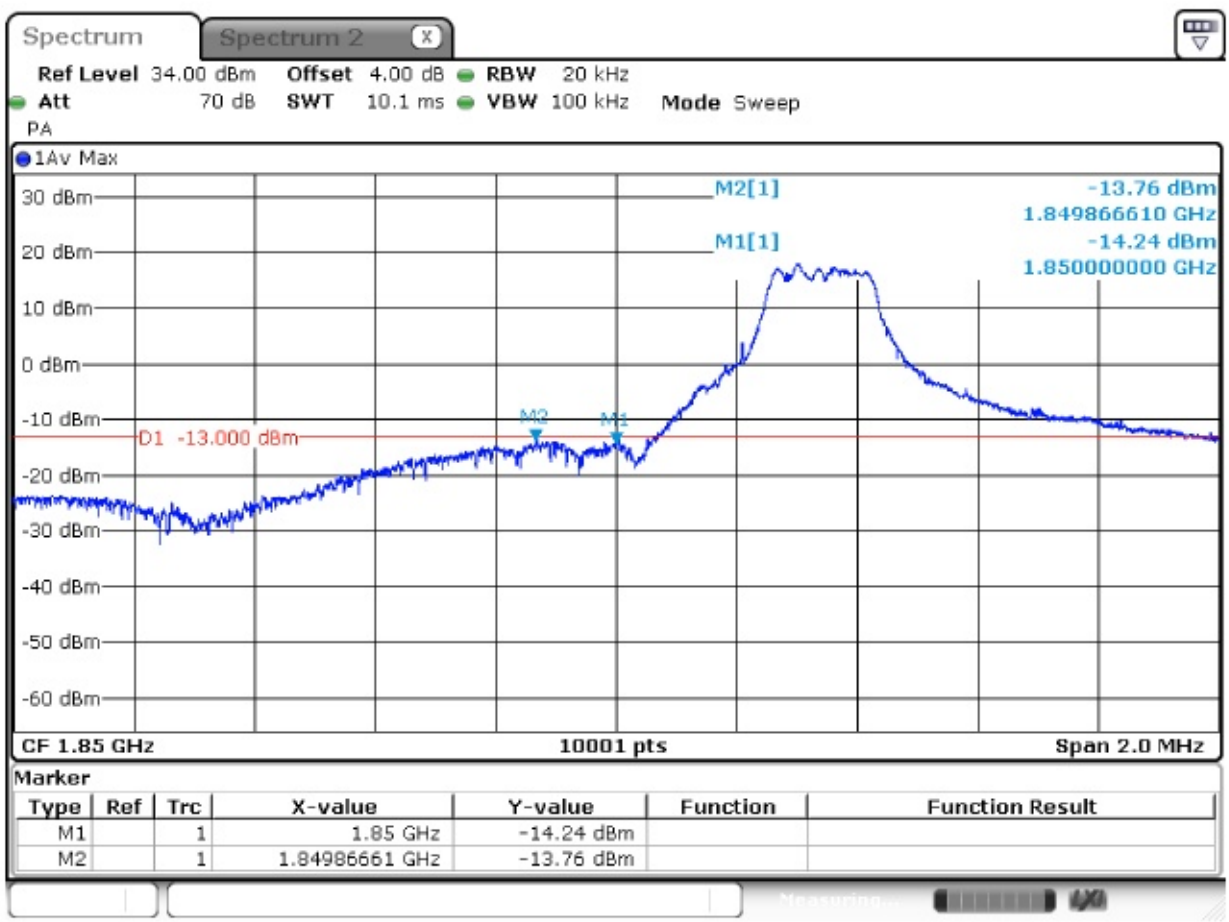
7.5. Uncertainty

The measurement uncertainty is defined as ±3.2 dB .

7.6. Test Result

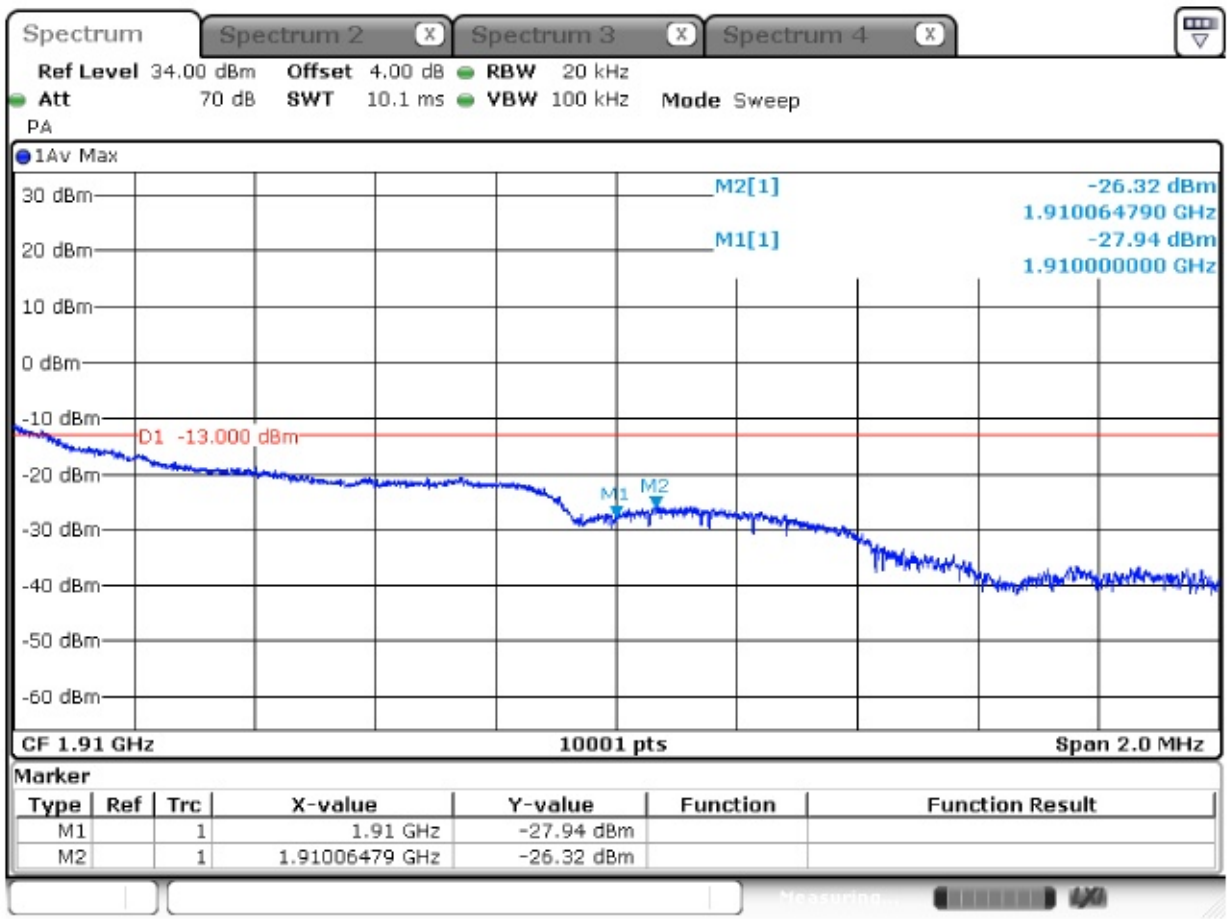
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 1: LTE_CAT-M1_Band 2_QPSK_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1850.7 MHz



Date: 8.SEP.2017 14:43:35

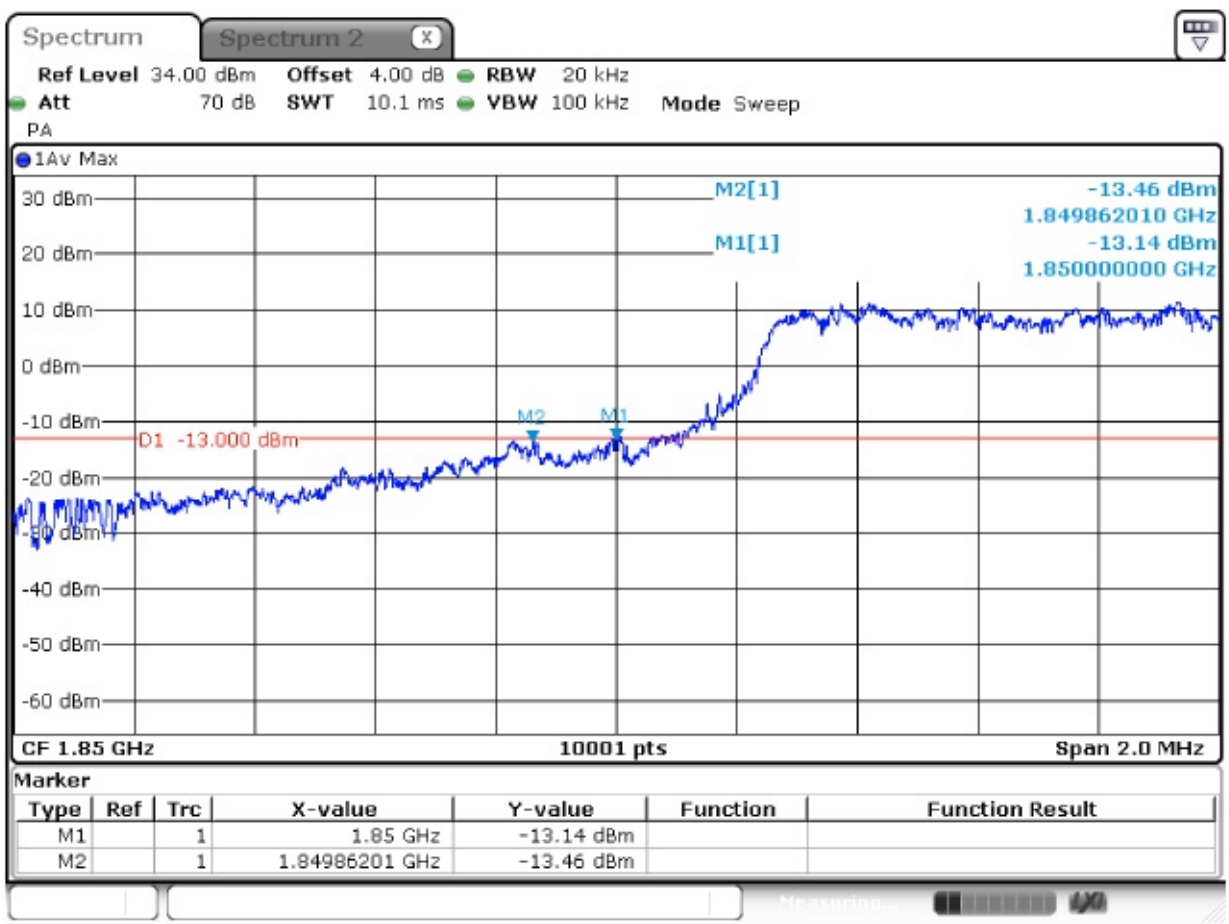
1909.3MHz



Date: 8.SEP.2017 15:14:25

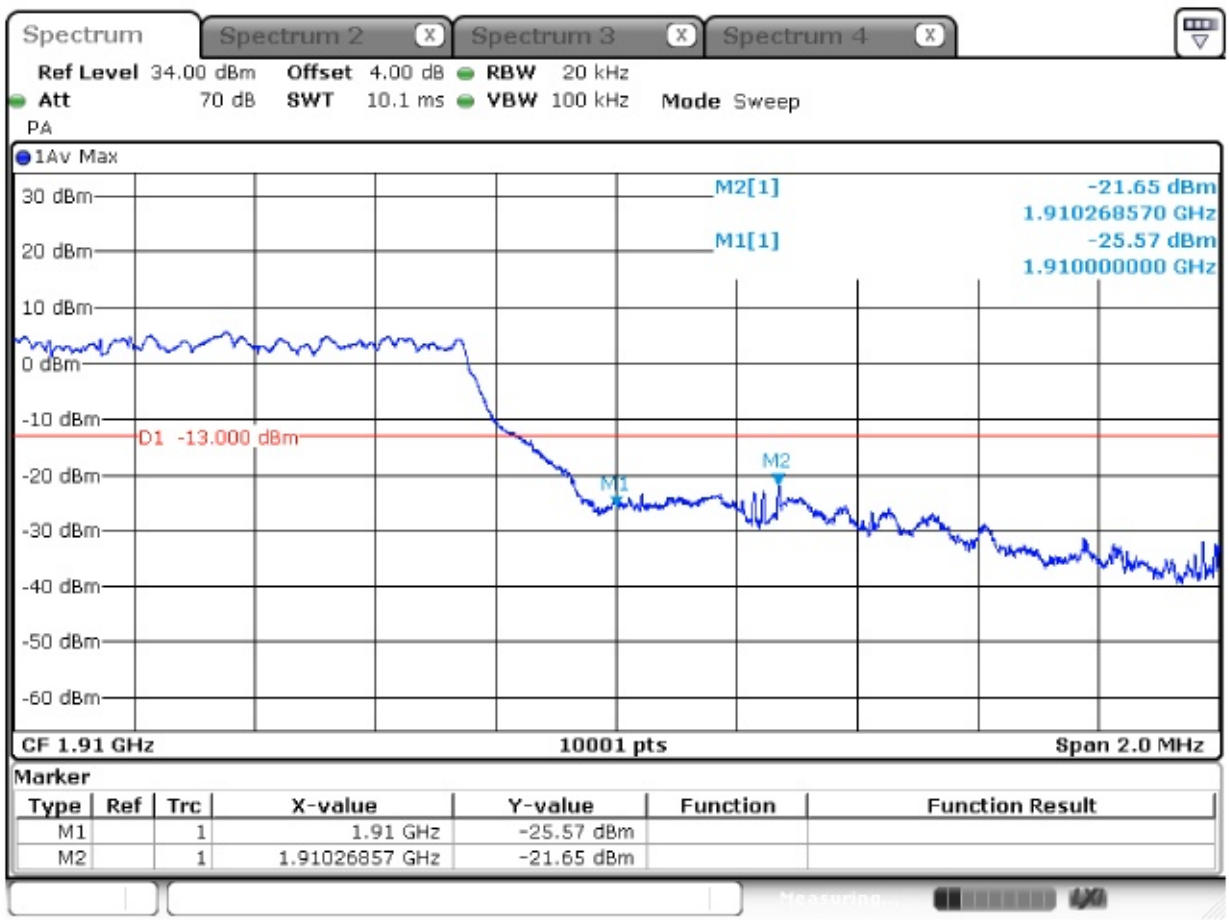
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 2: LTE_CAT-M1_Band 2_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1850.7 MHz



Date: 8.SEP.2017 14:44:49

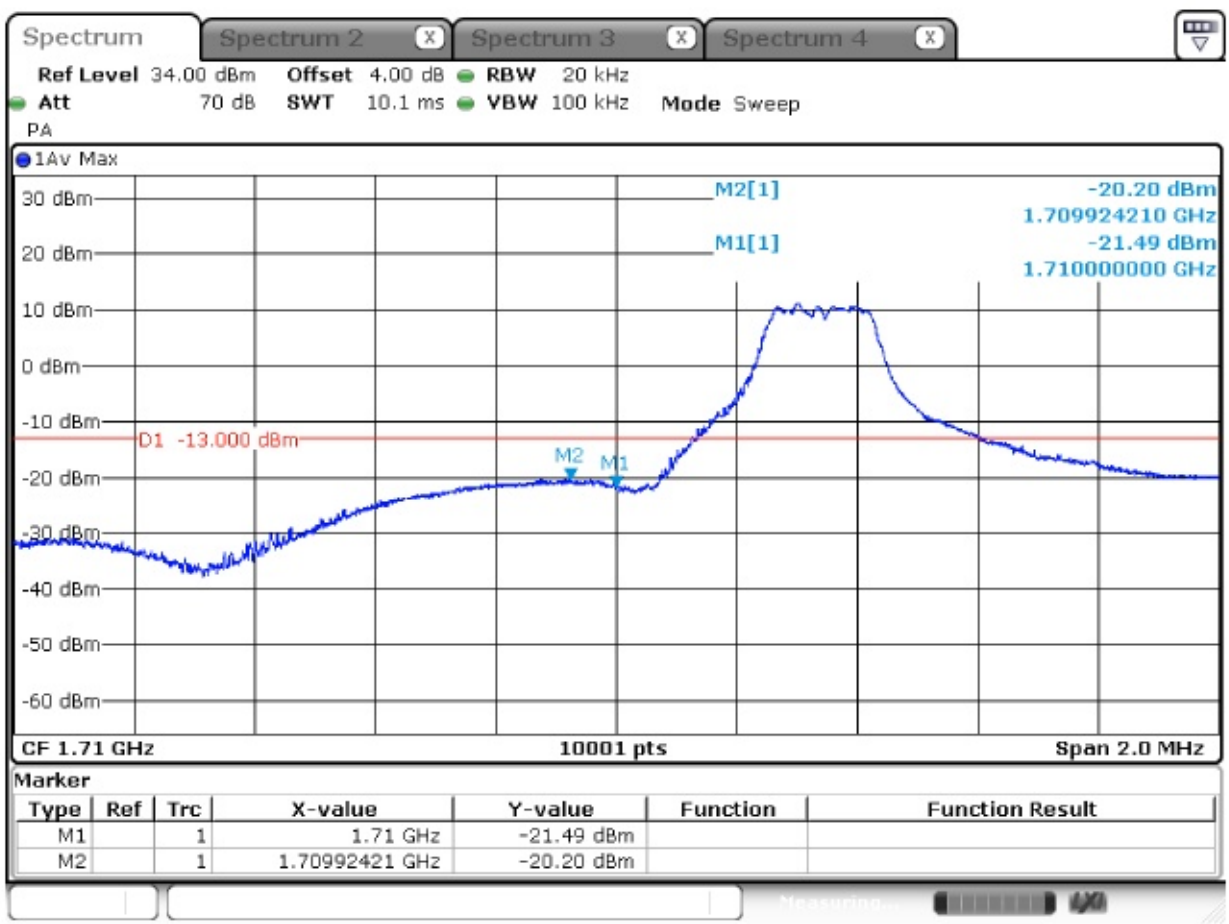
1909.3MHz



Date: 8.SEP.2017 15:15:54

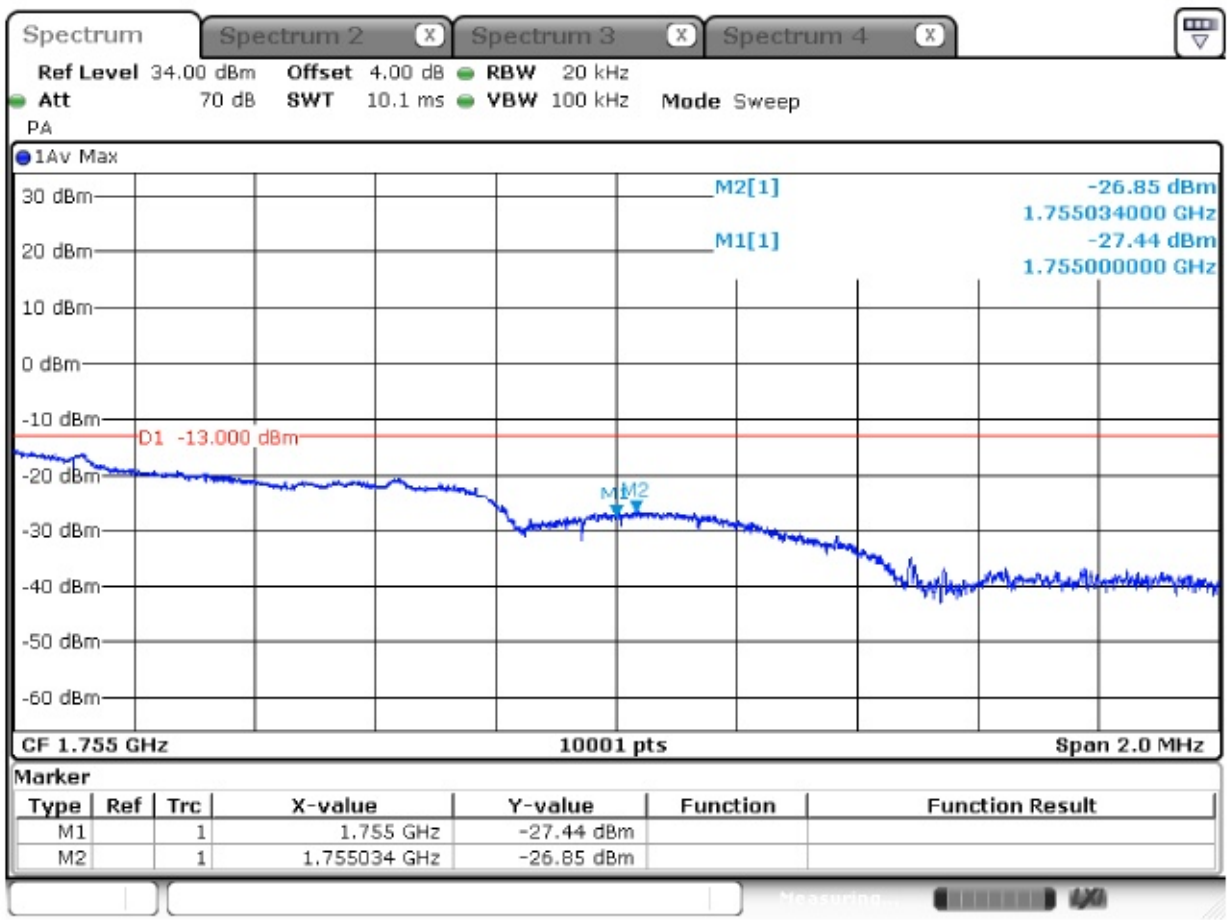
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 3: LTE_CAT-M1_Band 4_QPSK_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1710.7 MHz



Date: 8.SEP.2017 15:31:40

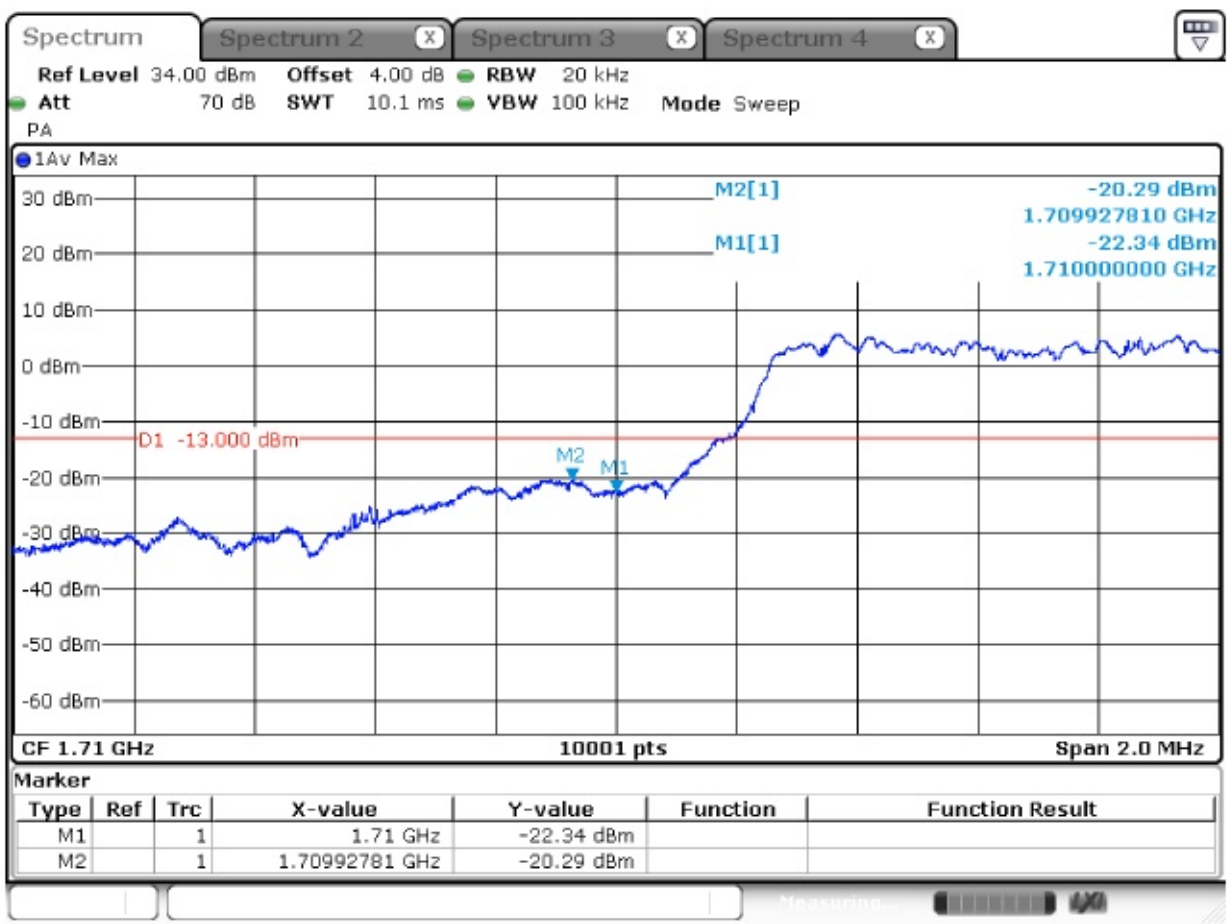
1754.3 MHz



Date: 8.SEP.2017 15:55:29

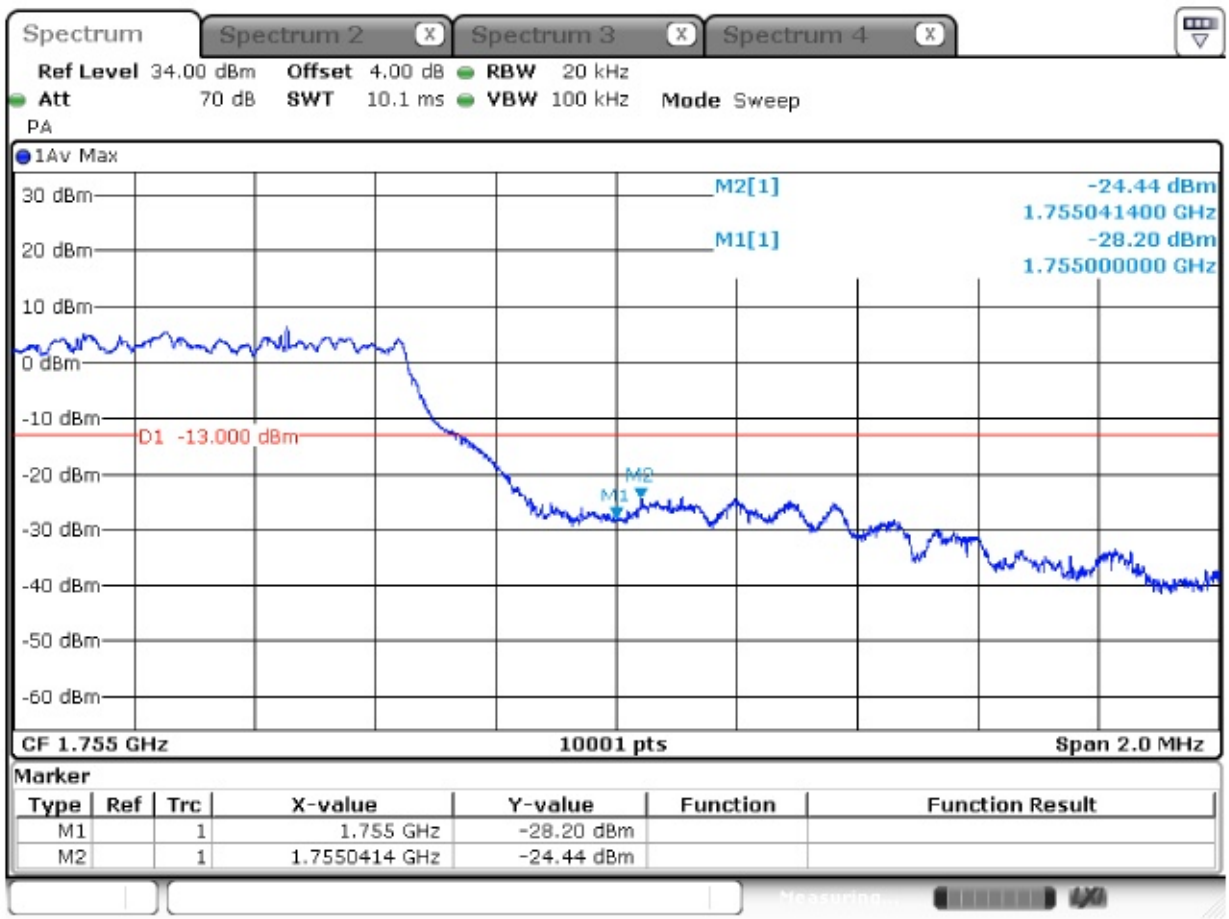
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 4: LTE_CAT-M1_Band 4_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1710.7 MHz



Date: 8.SEP.2017 15:27:10

1754.3 MHz



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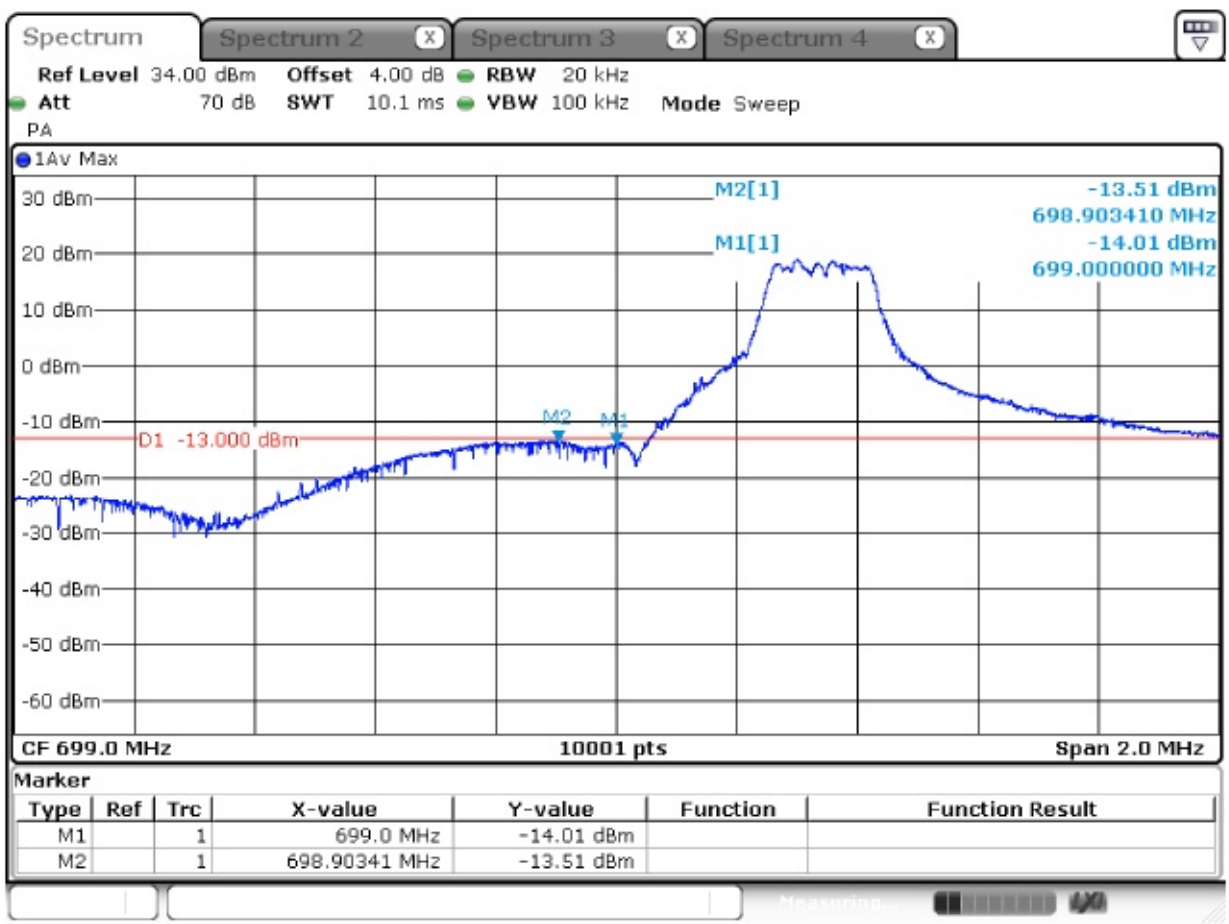
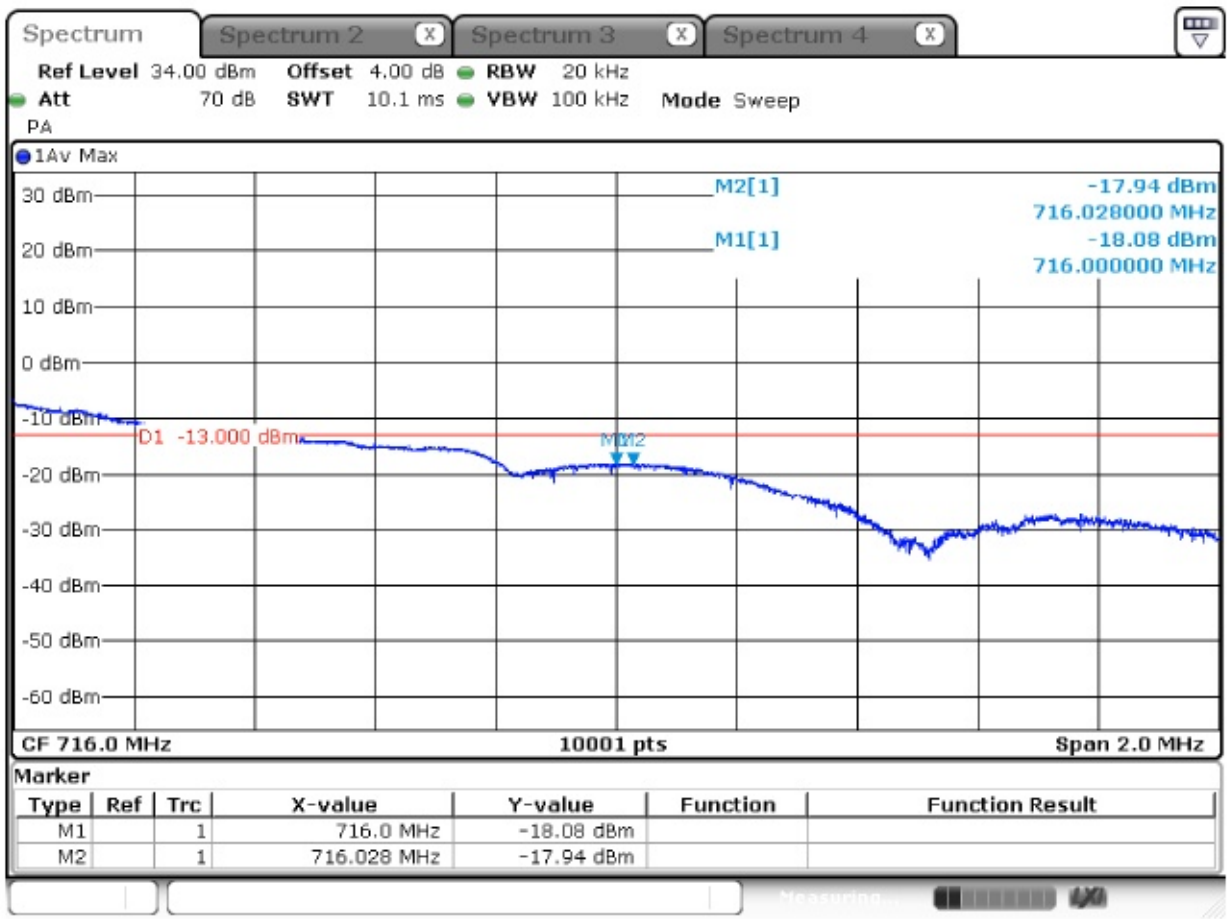
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link		
Date of Test	2017/09/08	Test Site	SR10-H

699.7 MHz



Date: 8.SEP.2017 16:24:25

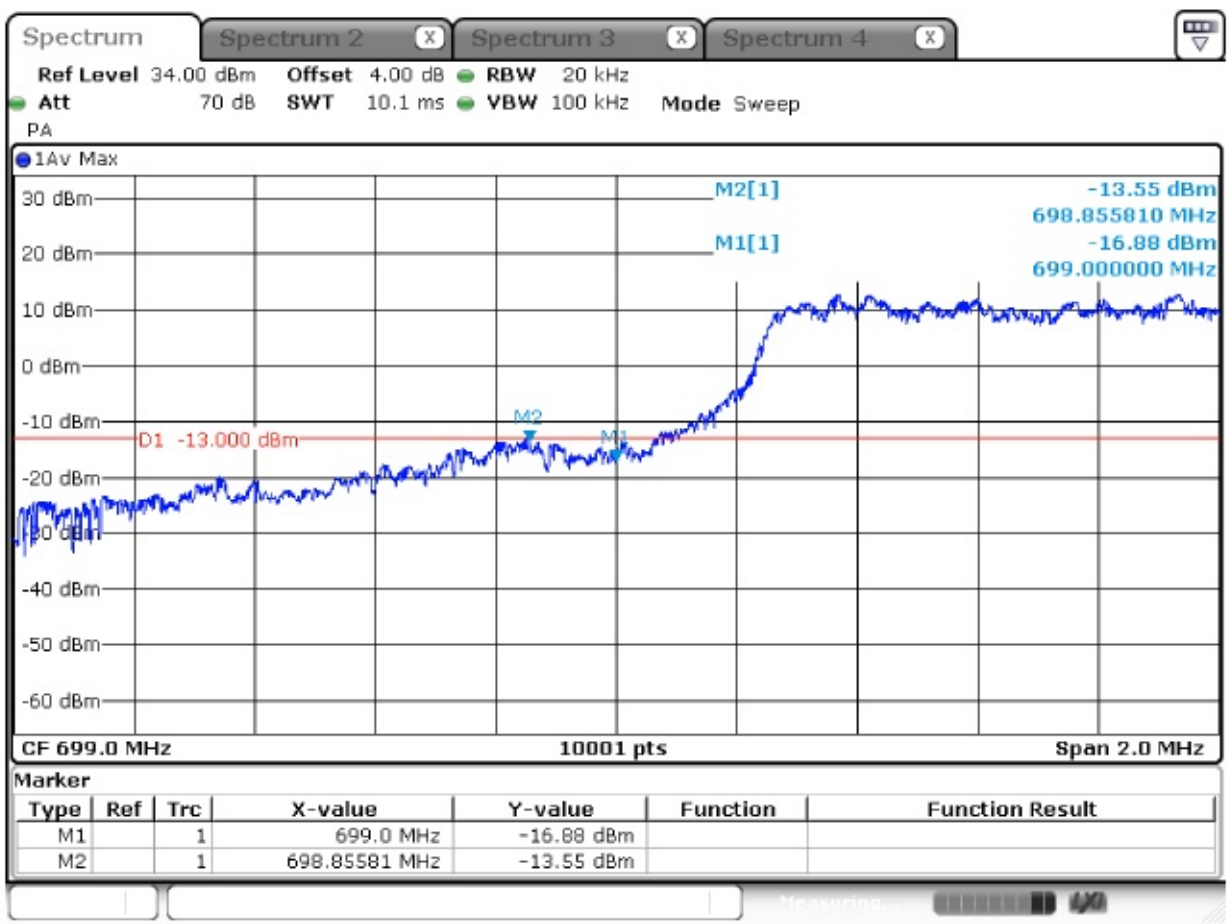
715.3 MHz



Date: 8.SEP.2017 16:47:39

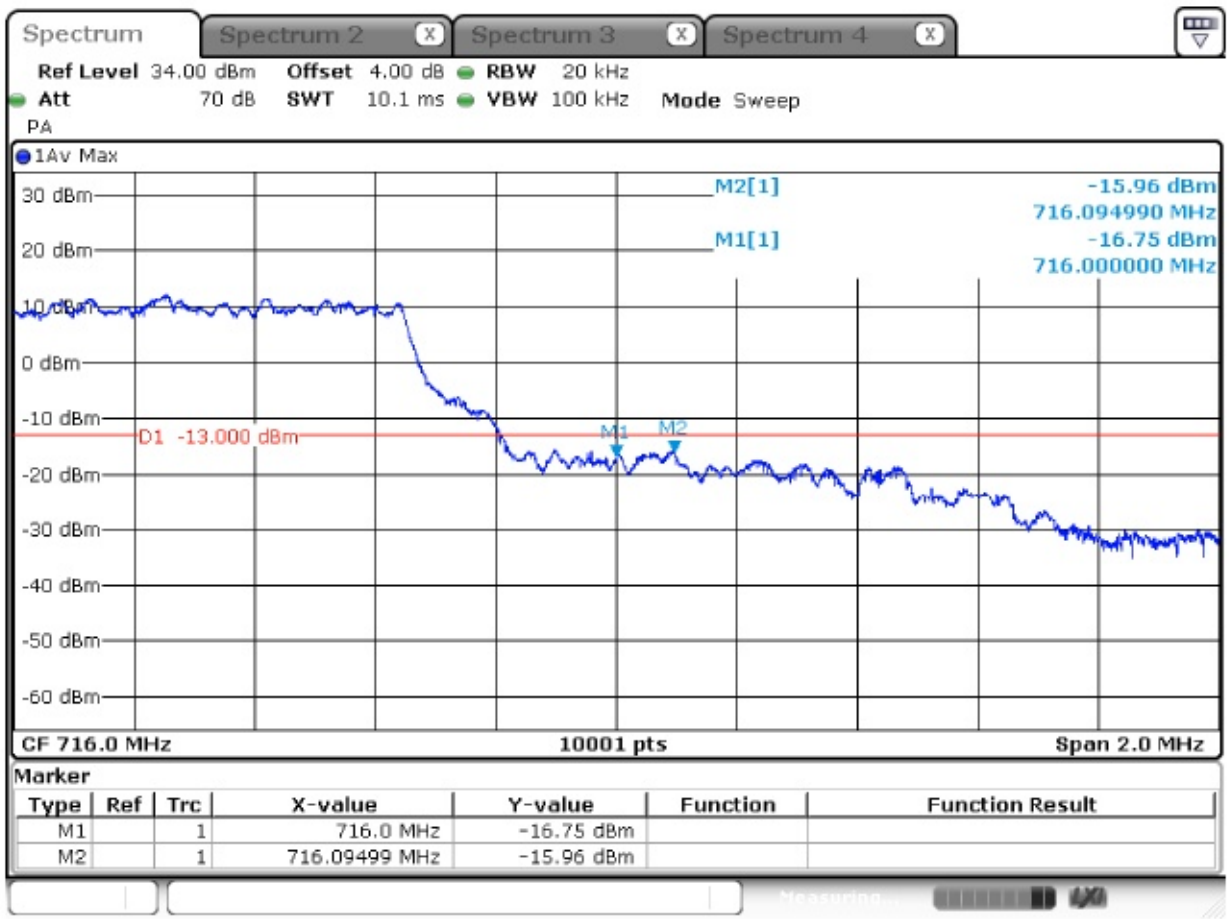
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

699.7 MHz



Date: 8.SEP.2017 16:22:59

715.3 MHz



Date: 8.SEP.2017 16:45:58

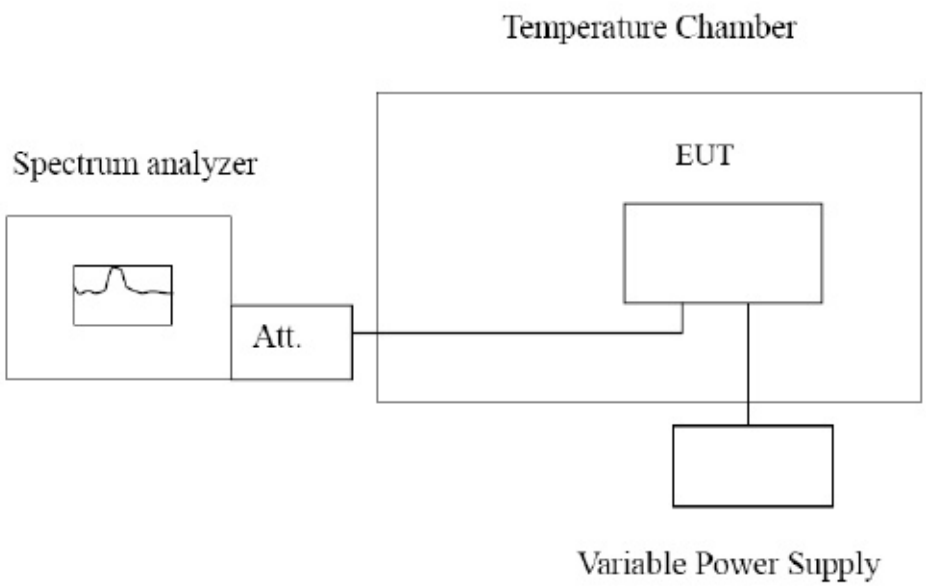
8. Frequency Stability

8.1. Test Equipment

Frequency Stability Under Temperature & Voltage Variations / SR10-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Spectrum Analyzer	R&S	FSVA40	101455	2016/11/28	2017/11/27
Wideband Radio Communication Tester	R&S	CMW500	150246	2017/04/19	2018/04/18
Directional Coupler	Agilent	778D	20402	2016/10/07	2017/10/06

8.2. Test Setup



8.3. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30℃. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ increased per stage until the highest temperature of +50℃ reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, record the maximum frequency change.

8.4. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 9
ANSI C63.26-2015 Sub-clause 5.6

8.5. Uncertainty

The measurement uncertainty is defined as ± 10 Hz.

8.6. Test Result

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE_CAT-M1_Band 2_QPSK_Link Mode 2: LTE_CAT-M1_Band 2_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1850.7 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-22	0.0119
3.8	-15	0.0083
3.4	-19	0.0103

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	13	-0.0068
-20	18	-0.0099
-10	14	-0.0076
0	-16	0.0088
+10	-18	0.0097
+20	20	-0.0109
+30	16	-0.0088
+40	-16	0.0088
+50	-17	0.0092

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE_CAT-M1_Band 2_QPSK_Link Mode 2: LTE_CAT-M1_Band 2_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1878.3 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-13	0.0067
3.8	-18	0.0097
3.4	14	-0.0076

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	22	-0.0115
-20	-32	0.0168
-10	-22	0.0115
0	-16	0.0082
+10	12	-0.0065
+20	-35	0.0184
+30	19	-0.0101
+40	23	-0.0121
+50	-17	0.0088

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: LTE_CAT-M1_Band 2_QPSK_Link Mode 2: LTE_CAT-M1_Band 2_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1909.3MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	21	-0.0110
3.8	16	-0.0083
3.4	-16	0.0086

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	14	-0.0074
-20	-13	0.0066
-10	17	-0.0091
0	18	-0.0094
+10	-21	0.0110
+20	-20	0.0103
+30	23	-0.0121
+40	17	-0.0089
+50	-19	0.0101

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: LTE_CAT-M1_Band 4_QPSK_Link Mode 4: LTE_CAT-M1_Band 4_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1710.7 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	8	-0.0046
3.7	8	-0.0048
3.4	8	-0.0045

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-25	0.0146
-20	-25	0.0144
-10	-26	0.0154
0	-19	0.0112
+10	-14	0.0083
+20	8	-0.0047
+30	7	-0.0043
+40	15	-0.0090
+50	17	-0.0101

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: LTE_CAT-M1_Band 4_QPSK_Link Mode 4: LTE_CAT-M1_Band 4_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1730.8 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-4	0.0022
3.7	4	-0.0025
3.4	-3	0.0020

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	6	-0.0032
-20	4	-0.0024
-10	5	-0.0027
0	-18	0.0104
+10	13	-0.0076
+20	4	-0.0023
+30	7	-0.0042
+40	-12	0.0069
+50	15	-0.0085

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: LTE_CAT-M1_Band 4_QPSK_Link Mode 4: LTE_CAT-M1_Band 4_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

1754.3 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-6	0.0036
3.7	-5	0.0031
3.4	-5	0.0030

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	27	-0.0152
-20	27	-0.0154
-10	27	-0.0152
0	20	-0.0116
+10	18	-0.0100
+20	-5	0.0029
+30	-9	0.0053
+40	-12	0.0070
+50	-15	0.0087

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

699.7 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-11	0.0065
3.7	-8	0.0044
3.4	-8	0.0047

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-10	0.0059
-20	-10	0.0057
-10	-10	0.0061
0	-10	0.0056
+10	-7	0.0040
+20	-8	0.0047
+30	7	-0.0040
+40	6	-0.0035
+50	9	-0.0053

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

705.7 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	5	-0.0031
3.7	4	-0.0025
3.4	6	-0.0033

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	-5	0.0031
-20	-4	0.0026
-10	-7	0.0041
0	-5	0.0031
+10	-4	0.0026
+20	4	-0.0023
+30	-4	0.0025
+40	-6	0.0032
+50	-7	0.0040

Product	Module		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: LTE_CAT-M1_Band 12_QPSK_Link Mode 6: LTE_CAT-M1_Band 12_16-QAM_Link		
Date of Test	2017/09/08	Test Site	SR10-H

715.3 MHz

Voltage

Voltage (VDC)	Frequency Error(Hz)	Frequency Error(ppm)
4.2	-6	0.0035
3.7	6	-0.0036
3.4	-4	0.0025

Temperature

TEMPERATURE	Frequency Error(Hz)	Frequency Error (ppm)
-30	12	-0.0069
-20	11	-0.0061
-10	10	-0.0058
0	10	-0.0055
+10	7	-0.0041
+20	6	-0.0034
+30	-7	0.0038
+40	-8	0.0043
+50	-9	0.0050